8. Luann

Program Name: Luann.java Input File: luann.dat

This past summer Luann collected data on how many turtles she saw in the pond behind her home. Several days in a row she would go down to the creek and count the turtles in the pond and then record her findings in a data file. Luann didn't count turtles every single day. She would go on consecutive days for a while then skip a few days. She never counted turtles more than nine days in a row. Now that summer is over, Luann would like to chart her findings. She wants a different chart for each set of consecutive days that she counted turtles. Let's help her write a program that will process the data and print out the charts she wants.

Input: A single value C representing the number of charts to be printed. N will be followed by C sets of data each beginning with a number N that represents the number of coordinate pairs to follow. Each coordinate pair will be on a separate line where the first value is x and the second value y. Both x and y will be greater than or equal to 1 and less than or equal to 9. The x values will always begin with one and continue in sequential order with no skips. For example, if there are 7 coordinate pairs, the x values will always be 1 - 7 without any skips.

Output: A chart for each set of data. Each chart should have an x and y axis labeled starting at one (1). The y axis should be formed using pipes (|) and the x axis should be formed using underscores ($_$). The y axis and its labels should take up two spaces in each row and the x axis and its labels should take up two rows. Each data point (y value) should be marked with a capital X. Any space within the chart that does not have an axis, a label or a data point must be filled with a blank. Each chart should be followed by the line, "====="."

Sample input:		Sample output:
2		6 X
7		5 X
1	1	4 X
2	2	3 X X
3	3	2 X
4	4	1 X
5	5	
6	3	1234567
7	6	====
9		9 XXX
1	1	8
2	4	7 X
3	9	6
4	9	5 X
5	9	4 X
6	7	3
7	5	2 X
8	2	1 X X
9	1	
		123456789
		====